CLAIMS

1. An electronic apparatus equipped with at least a first transmission unit for performing a first communication by an electromagnetic wave; a second transmission unit for performing a second communication by an electromagnetic wave; and a reception unit for receiving a signal transmitted from said second transmission unit; wherein:

said electronic apparatus is comprised of:

an antenna in which a diameter of a sphere including a 10 radiator is smaller than $1/(2\pi)$ of a wavelength of an electromagnetic wave used in either said second transmission unit or said reception unit.

- An electronic apparatus, as claimed in claim 1 wherein:
 said antenna is constituted by the radiator; and a reactance element for canceling a reactance component of said radiator.
- 3. An electronic apparatus, as claimed in claim 1 wherein:
 saidfirst transmission unit, said second transmission unit,

 20 or either a partial circuit or all circuits of said reception unit are constructed on a semiconductor integrated circuit; and either a portion or all of reactance components of the radiator of said antenna are canceled by both a reactance component owned by a wiring line on said semiconductor integrated circuit,
- and a reactance component owned by a wiring line defined from said semiconductor integrated circuit up to the radiator of the antenna.
 - 4. An electronic apparatus equipped with at least a first

transmission unit for performing a first communication by an electromagnetic wave; a second transmission unit for performing a second communication by an electromagnetic wave; and a reception unit for receiving a signal transmitted from said second transmission unit; wherein:

said electronic apparatus is comprised of:

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an antenna in which a diameter of a sphere including a radiator is smaller than $1/(2\pi)$ of a wavelength of an electromagnetic wave used in either said second transmission unit or said reception unit;

evaluation means for evaluating a reception condition of said reception unit;

control means for controlling a frequency of an electromagnetic wave transmitted by said second transmission unit; and

feedback means for feeding back an evaluation result made by said evaluation means to said control means.

- 5. An electronic apparatus as claimed in any one of claim 1 to claim 4 wherein:
 - a shape of the radiator of said antenna is a line shape.
 - 6. An electronic apparatus as claimed in any one of claim 1 to claim 5 wherein:
- 25 the radiator of said antenna is constituted by a print pattern formed on a printed board.
 - 7. A wireless communication terminal comprising:
 - a first housing unit;

a second housing unit;

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a coupling unit for coupling said first housing unit to said second housing unit in such a manner that a positional relationship between said first housing unit and said second housing unit is changeable;

an external wireless communication-purpose antenna which is mounted on either said first housing unit or said second housing unit;

an external wireless communication control unit mounted on said first housing unit, for mainly controlling an external wireless communication performed via said external wireless communication-purpose antenna;

a display unit mounted on said second housing unit;

a first internal wireless communication control unit mounted on said first housing unit, for controlling an internal wireless communication executed between said first housing unit and said second housing unit;

a second internal wireless communication control unit mounted on said second housing unit, for controlling an internal wireless communication executed between said first housing unit and said second housing unit;

a first internal wireless communication-purpose antenna mounted on said first housing unit, in which a diameter of a sphere including a radiator is smaller than $1/(2\pi)$ of a wavelength of an electromagnetic wave used in said internal wireless communication;

a second internal wireless communication-purpose antenna mounted on said second housing unit, in which the diameter of the sphere including the radiator is smaller than $1/(2\pi)$ of the

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wavelength of the electromagnetic wave used in said internal wireless communication; and

an internal wireless timing control unit for controlling transmission timing of the electromagnetic wave transmitted in said internal wireless communication based upon transmission timing of the electromagnetic wave transmitted via said external wireless communication-purpose antenna.

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